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## New Weather Bureau Publications

*Research Paper No. 44*, "Three-Dimensional Wind Flow and Resulting Precipitation in a Northern California Storm," by Vance A. Myers and George A. Lott, Aug. 1963, 46 pp. Price 35 cents.

By careful consideration of the observed winds and with the aid of various empirical and dynamic relationships, a steady-state 3-dimensional wind flow is deduced over northern California for a 24-hour stormy period. The production (or evaporation) of precipitation elements is estimated for all parts of the flow, the surviving elements are followed down to the surface, and the resulting precipitation pattern is compared with the observed.

*Technical Paper No. 47*, "Probable Maximum Precipitation and Rainfall-Frequency Data for Alaska," by John F. Miller, 1963, 69 pp. Price \$1.00.

PMP and rainfall-frequency data are given for areas to 400 sq. mi., durations to 24 hr., and return periods from 1 to 100 yr. Basic precipitation data were obtained from 234 Alaskan and 33 Canadian stations.

*Technical Paper No. 2*, Revised, "Maximum Recorded United States Point Rainfall for 5 Minutes to 24 Hours at 296 First-Order Stations," by A. H. Jennings, 1963, 56 pp. Price 40 cents.

Technical Paper No. 2 was first published in 1947. This revision brings the material up through 1961. A total of 338 new maxima were observed in the interim.

*Climatology of the United States No. 21-46-2*, "Climatic Summaries of Resort Areas—White Sulphur Springs, West Virginia," by J. K. McGuire, July 1963, 4 pp. Price 5 cents.

This is the third pamphlet in the series on resort areas in the United States. The others deal with Saratoga Springs, N.Y. and Berkeley Springs, W. Va.

Sheet of the *National Atlas* "Normal Annual Total Precipitation (inches)" and "Normal Total Precipitation (inches) by Months". 1 sheet. Price 10 cents.

The above publications are for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402.

## Recent Articles in Other Weather Bureau Periodicals

*Weekly Weather and Crop Bulletin, National Summary*, vol. L

No. 24, June 17, 1963:

"How Cooperative Observers' Records Are Used," by J. H. Hagarty, p. 8.

No. 30, July 29, 1963:

"Northeast Drought in 1963?", a collection of reports from Weather Bureau State Climatologists in the Northeast, p. 8.

No. 37, September 16, 1963:

"Harvesting Quality Cotton," by J. A. Riley, p. 8.

No. 45, November 11, 1963:

"Northeast Drought of 1963," by State Climatologists, Northeast area, pp. 7-8.

*Mariners Weather Log*, vol. 7

No. 4, July 1963:

"What Satellite Data Cannot Tell Us About Tropical Cyclones," by Neil L. Frank, pp. 113-116.

"A Look at ICITA," by Albert M. Bargeski, pp. 116-119.

No. 5, September 1963:

"Surface Processes Which Contribute to the Decay of Hurricanes," by Banner I. Miller, pp. 147-149.

"A Study of Wave Persistence in the North Atlantic Ocean," by J. M. Kipper and E. J. Joseph, pp. 149-169.

No. 6, November 1963:

"Pitching on a Prayer," by I. F. Wood, pp. 193-197.

"New Marine Climatological Exchange Program Adopted by WMO," by H.C. Sumner, pp. 197-199.